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A71 CONCENTRATE		Revised	1/12/00
MWD		Replaces	12/30/99
		Printed	1/23/00

A. Chemical Product and Company Identification

Product Name: A71 CONCENTRATE
 General Use: See Product Data Sheet
 Product Description: See Product Data Sheet
 MSDS Code: 16006A
 Synonyms/Trade Names: Same as product name

Manufacturer: Castrol Industrial North America Inc.
 Address (Line 1): 1001 West 31st Street
 Address (Line 2): Downers Grove, IL 60515-1280
 Emergency Phone: 1-800-424-9300 (CHEMTREC)

Information Phone: 1-800-621-2661
 Regulatory Questions/MSDS Preparation - SHEA Department
 Product Chemistry/Application Questions - Technical Support

If available in Canada, this product is supplied by:
 Castrol Canada Inc.
 3660 Lakeshore Blvd. West
 Toronto, Ontario M9W 1P2

Information Phone: 416-252-5511

B. Composition/Information on Ingredients

Ingredient Name	CAS Number	%
ALKANES, CHLORO	61788-76-9	25 - 30%
ALKANES, CHLORO	61788-76-9	5 - 10%
DISTILLATES, PETROLEUM, SOLVENT-REFINED	64741-96-4	10 - 15%
HEAVY NAPHTHENIC		

Contains no other ingredients now known to be hazardous as defined by OSHA

CAS Number	Exposure Guideline
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If applicable, the exposure limits listed are found in the ACGIH TLV guide for TWA unless otherwise noted.

61788-76-9	Not established; TWA
61788-76-9	Not established; TWA
64741-96-4	5mg/M3

313 Listed Chemicals

If none listed here, or in Section O, there are no 313 chemicals present above threshold value.

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B. Composition/Information on Ingredients (Cont.)

N583	POLYCHLORINATED ALKANES (C10 TO C13)	9.0000
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C. Hazards Identification

***** EMERGENCY OVERVIEW *****

Appearance:
Dark brown oil, slightly oily odor

MAY CAUSE EYE AND SKIN IRRITATION. MIST MAY CAUSE RESPIRATORY TRACT IRRITATION. AVOID CONTACT WITH EYES, SKIN & CLOTHING. AVOID BREATHING MISTS. WASH THOROUGHLY AFTER HANDLING.

NFPA: Health 1 Flammability 1 Reactivity 0 Special 0

Potential Health Effects

Eye: Concentrate may cause eye irritation.
Skin Contact: Concentrate may cause skin irritation.
In Absorption: No acute effects expected.
Ingestion: Oral LD50 not established. Do not ingest.
Inhalation: TLV for product not established. Refer to Hazardous Materials List for ingredient TLV's.
Chronic Effects: Prolonged or repeated contact with petroleum oil may remove natural oils and fats from the skin.
Carcinogenicity: No component known to be present in this product at >0.1% is presently listed as a carcinogen by IARC, NTP or OSHA unless otherwise noted in Section P - Other Information.
Routes of Exposure: Skin contact, Eye contact, Inhalation

D. First Aid Measures

Eye: In case of contact, flush eyes with plenty of water. Get medical attention if irritation persists.
Skin: Wash skin with soap and water. If irritation occurs, get medical attention. Wash clothing before reuse.
Ingestion: Do not induce vomiting; get medical attention immediately.
Inhalation: If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

E. Fire Fighting Measures

Flammable Properties

Flash Point (degrees F/C): >300°F / >148.87°C Method: COC
Upper Flammable Limit: NA
Lower Flammable Limit: NA

E. Fire Fighting Measures (Cont.)

Autoignition Temperature: Not determined
 Hazardous Products of Combustion: Potential combustion products are HCl (gas) and oxides of carbon and sulfur.
 Properties That Could Increase Fire or Explosion Hazard: None known.
 Extinguishing Media: carbon dioxide, dry chemical, foam.
 Fire Fighting Instructions: Treat as mineral oil fire. Wear self contained breathing apparatus when fire fighting in a confined space. Cool fire exposed containers with waterspray to prevent rupture.

F. Accidental Release Measures

Recover free liquid. Keep product out of streams and waterways by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas.

G. Handling and Storage

Avoid contact with skin and eyes. Avoid breathing mists-in accordance with safety and industrial hygiene practices airborne exposures should be controlled to the lowest extent practicable. Do not take internally. Keep container closed when not in use. Bring product to room temperature before use. Do not store near heat, flame or strong oxidizing agents.

H. Exposure Controls/Personal Protection

Personal Protective Equipment (PPE)
 Eye/Face Protection: Safety glasses with side shield or chemical goggles.
 Skin Protection: Impervious gloves such as rubber should be used when handling this product.
 Respiratory Protection: Good industrial hygiene practices recommend that engineering controls be used to reduce environmental concentrations to the threshold limit value (TLV) or permissible exposure limit (PEL), if applicable. If any associated TLV or PEL is exceeded, provide NIOSH approved respiratory protection.
 Other: Eyewash facility. Appropriate clothing to avoid skin contact.

Exposure Guidelines: See information provided in Section B, Ingredients.

I. Physical and Chemical Properties

Appearance/Odor:
 Dark brown oil, slightly oily odor
 pH (conc): NA pH at :NA
 Vapor Pressure (mm Hg): Negligible @ 70 F
 Vapor Density (Air = 1): NA

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I. Physical and Chemical Properties (Cont.)

Boiling Point (degrees F/C): >500°F / >259.97°C
Freezing Point (degrees F/C): not determined
Melting Point (degrees F/C): 0.00 / Not known
Solubility in Water: Insoluble
Specific Gravity at 60 degrees F (H2O = 1): 1.0500 +/-0.01
Density: Not calculated
Softening Point (degrees F): Not determined
Evaporation Rate (n-Butyl Acetate = 1): Negligible
Viscosity: Not available
Bulk Density: Not determined
% Volatile: Negligible
VOC: Not tested lbs/gallon Method: Not Tested
Octanol/Water Partition Coefficient: Not determined
Saturated Vapor Concentration: Not determined
Molecular Weight: Not applicable

J. Stability and Reactivity

Chemical Stability: Stable under normal conditions.
Conditions To Avoid: None known.
Incompatibility With Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Potential combustion products are HCl (gas) and oxides of carbon and sulfur.

K. Toxicological Information

Eye Effects: Concentrate may cause eye irritation.
Skin Effects, Contact: Concentrate may cause skin irritation.
Skin Effects, Absorption: No acute effects expected.
Acute Oral Effects (Ingestion): Oral LD50 not established. Do not ingest.
Acute Inhalation Effects: TLV for product not established. Refer to Hazardous Materials List for ingredient TLV's.
Chronic Effects: Prolonged or repeated contact with petroleum oil may remove natural oils and fats from the skin.
Carcinogenicity: No component known to be present in this product at >0.1% is presently listed as a carcinogen by IARC, NTP or OSHA unless otherwise noted in Section P - Other Information.

L. Ecological Information

Ecotoxicological Information: No specific ecological data are available for this product.

M. Disposal Considerations

US EPA Hazardous Waste Numbers:
This material is regulated as used oil by the EPA. Under the Used Oil Management Standards (40 CFR 279) effective 3/8/93, EPA presumes used oil will be recycled. If it is, no characteristic determination is required provided all parties handling the used oil comply with part 279. These

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M. Disposal Considerations (Cont.)

management standards apply to used oil until it is disposed of or sent for disposal. Individual state regulations may differ from the federal regulations. Refer to applicable state & local regulations for proper handling procedures.

General Disposal Considerations:

Dispose of in accordance with local, state and federal regulations.
Disposal of this material to the land may be banned by federal law (40 CFR 268).

CERCLA Reportable Quantity: This product does not contain any CERCLA regulated materials.

N. Transport Information

Hazardous Materials Description/Proper Shipping Name:

Not regulated (if shipped by land in non bulk packaging)

Hazard Class: Same As Above

Identification Number (UN or NA Number): Same As Above

Packing Group: Same As Above

Freight Class:

NMFC 155250, PETROLEUM OILS, GREASES & RELATED PRODUCTS, NOI CLASS 65.

Telephone Number for Transport Instructions: 1-800-621-2661, SHEA Department

O. Regulatory Information

U.S. Federal Regulations:

Hazardous per OSHA 29 CFR 1910.1200: YES

CERCLA/EPCRA:

Section 302 Extremely Hazardous Substances (EHS):

No listed ingredients are present on the 302 list.

Section 311/312 Hazard Class(es): Immediate: YES Delayed: NO

Fire: NO Reactivity: NO Sudden Release of Pressure: NO

Section 313 Toxic Chemicals:

If none listed here or in Section B, there are no 313 chemicals present above threshold value.

N583 POLYCHLORINATED ALKANES (C10 TO C13) 3.0000

Other U.S. Federal Regulations: This product is a mixture and is NOT listed in the TSCA Inventory. The individual ingredients in the product are listed in the TSCA Inventory.

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P. Other Information

PETROLEUM OIL: STEL = 10 mg/M3. Using terminology of the International Agency for Research on Cancer (IARC), the petroleum distillates listed in Section II are classified by the supplier as severely processed. Not all those listed in Section II may be present. The supplier has stated that these distillates do not require a carcinogen label as defined by OSHA 29 CFR 1910.1200.

No component known to be present in this product at >0.1% is presently listed as a carcinogen by IARC, NTP or OSHA.

Chlorinated Paraffin

The specific chlorinated paraffin included in this product has not been tested or proven to cause adverse health effects. Other chlorinated paraffins have been tested and show evidence of carcinogenicity in laboratory animals via ingestion.

Q. Disclaimer

Information presented herein has been compiled from information provided to us by our suppliers and other sources considered to be dependable and is accurate to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or the use of any product in violation of any patent or in violation of any law or regulation. It is the users' responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.